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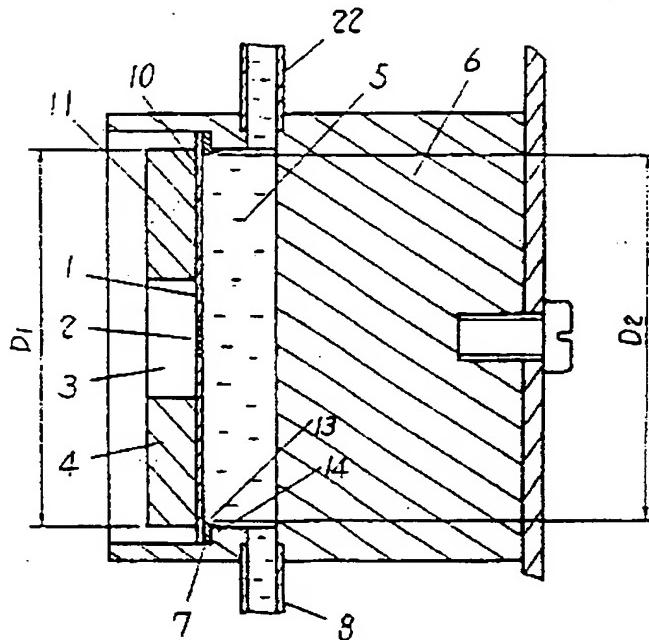
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APPLICANT : MATSUSHITA ELECTRIC IND CO LTD;

INVENTOR : NAGAI TAKESHI;

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TITLE : SPRAY APPARATUS



ABSTRACT : PURPOSE: To enhance the vibration efficiency of a vibration and to prevent stress concn., by mounting a nozzle plate and the vibrator in an almost outer periphery support state and allowing a nozzle to face to a pressure chamber.

CONSTITUTION: The inner periphery D2 of an adhesive 7 is constituted so as to be almost equal to the outer periphery D1 of piezoelectric ceramic 4 and a vibrator consisting of the piezoelectric ceramic 4 and a nozzle plate 1 is supported by the inner peripheral and of the adhesive layer 7 and the inner peripheral end 14 of a pressure chamber 5. Therefore, the piezoelectric ceramic 4 performs bending vibration efficiently without the outer periphery thereof being fixed and stress concn. in the outer periphery is avoided.

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